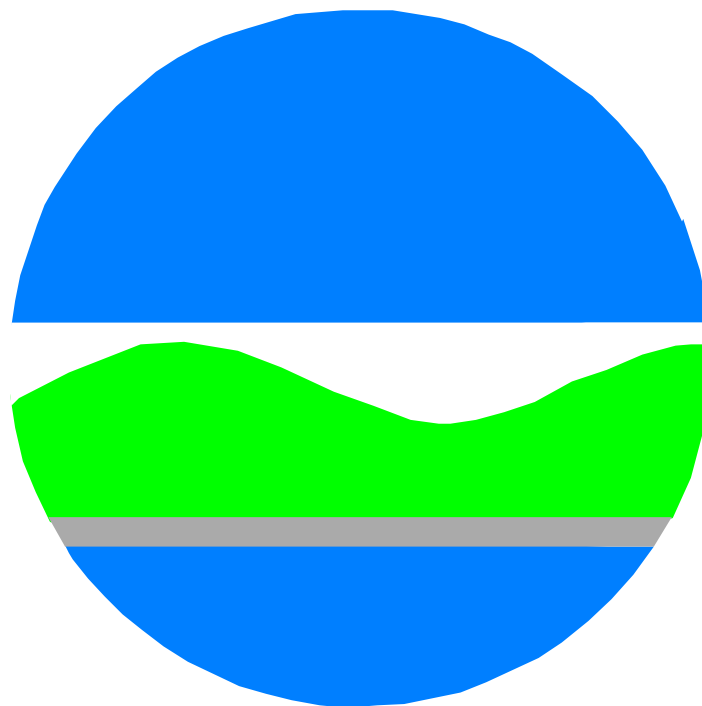


# RCRA EI Challenges

## Conflicting Exposure Standards in the Workplace Setting



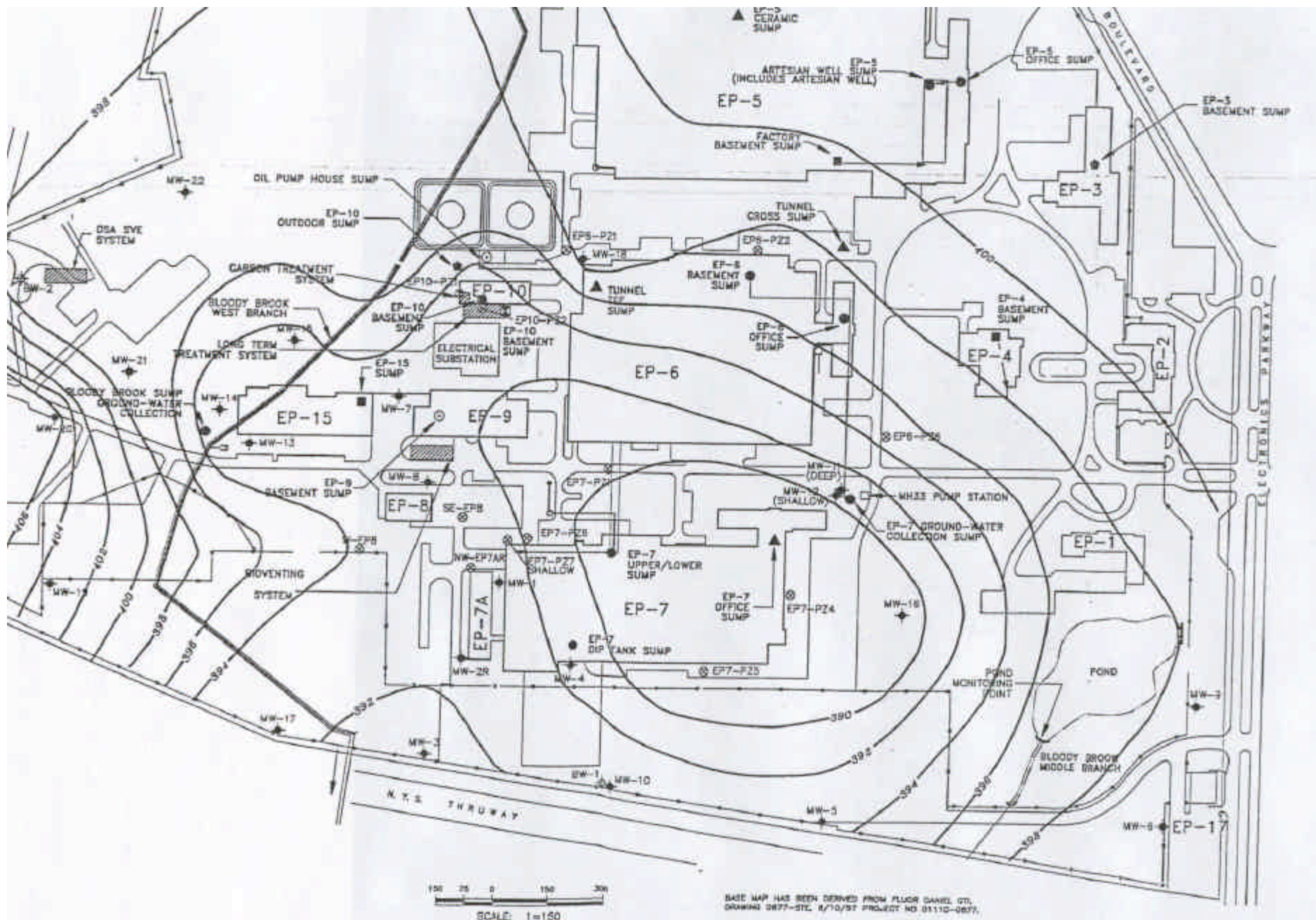
Bill Wertz

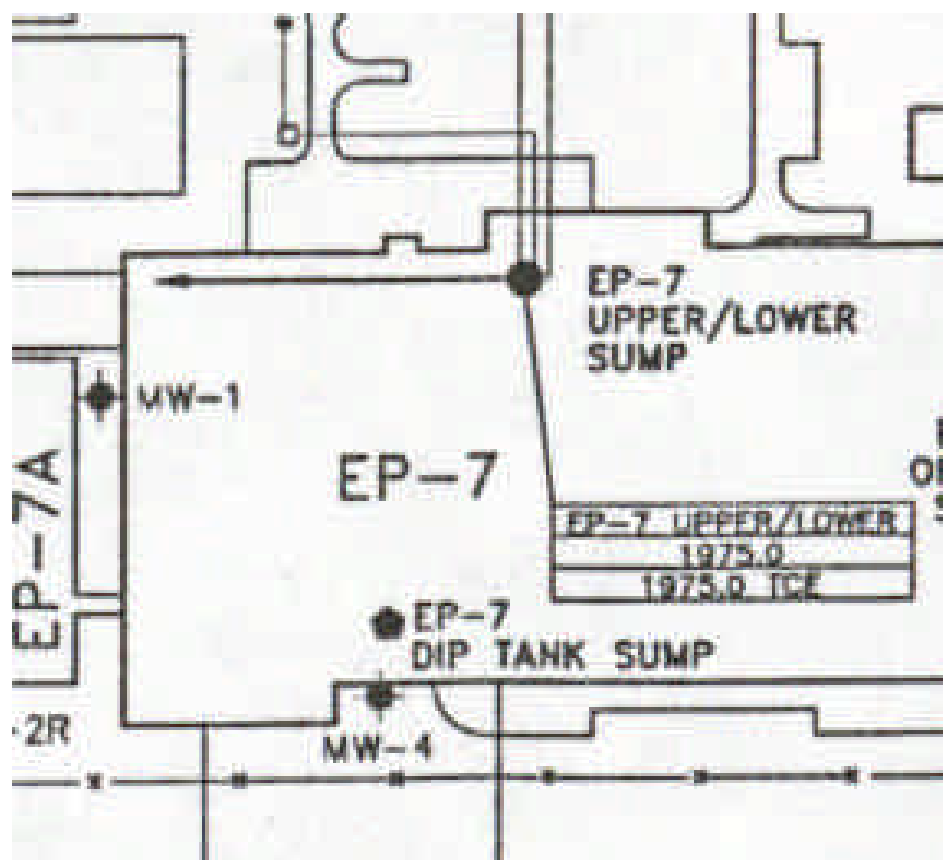
NYSDEC

# Workplace Exposures from Groundwater Contamination

# Lockheed Martin Electronics Park Facility

- Constructed in the mid-1940's by the General Electric (GE) Company
- Electronic components were manufactured in the past. Presently sonar and radar systems are manufactured
- Constituents of concern in groundwater include: trichloroethene, 1,2,dichloroethene, and vinyl chloride









Chemical	Indoor Air Concentration in basement
Trichloroethylene	58 ppbv

- Based on basement air results, DEC requested additional indoor air samples in office settings.



<b>LMC Indoor Air Sampling Results</b>	
Location	Result (ppbv)
Field Programs Office EP 7	19
Towed Array Area EP 6	2.3
Conference Room EP 6	ND(.4)
MTM Office EP 5	ND(.4)
Govt Properties Office EP 7	ND(.4)
Outside Background	ND(.4)
RAT Test Area EP 5	2.7

Chemical	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10 <sup>-5</sup> , HI=1]      From: Table 1, USEPA Draft Vapor Intrusion Guidance, 10/2001
Trichloroethylene	1.10ppbv

# The EI Quandary

- Workplace indoor air concentrations are above the guideline levels, but way below ( $> 3$  orders of magnitude) the OSHA PEL of 100 ppm.
- Company unwilling to take actions to reduce impacts due to groundwater - concerned with implications for other workplace related exposures.

# NYSDEC Response

- Company was requested to take actions to reduce exposures related to groundwater.
- Company required to notify employees of exposure.
- EI 725 = yes